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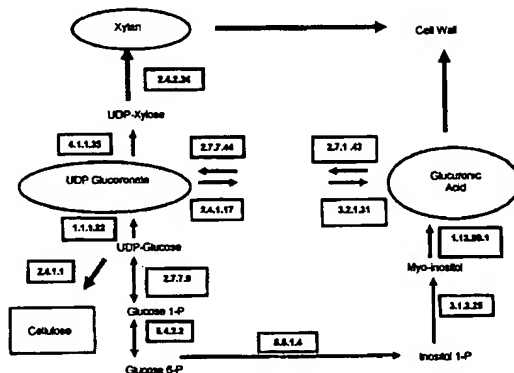
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- (71) Applicants (for all designated States except US):
SUZANO BAHIA SUL PAPEL E CELULOSE S.A. [BR/BR]; Av. Tancredo Neves nº 274, Centro Empresarial "Iguatemi II", Bloco B sala 121, Pituba, 41820-907 Salvador - BA (BR). FUNDAÇÃO DE ESTUDOS AGRÁRIOS "LUIZ DE QUEIROZ" - FEALQ [BR/BR]; Av. Centenário, nº 1080, 13416-000 Piracicaba - SP (BR). FUNDAÇÃO DE AMPARO À PESQUISA DO ESTADO DE SÃO PAULO [BR/BR]; Rua Pio XI, 1500, Alto da Lapa, 05468-901 São Paulo - SP (BR).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): LABATE, Carlos Alberto [BR/BR]; Avenida Pádua Dias, nº 11, 13400-970 Piracicaba - SP (BR). LABATE, Mônica Tereza Veneziano [BR/BR]; Avenida Pádua Dias, nº 11, 13400-970 Piracicaba - SP (BR). BERTOLO, Ana Letícia [BR/BR]; Avenida Pádua Dias, nº 11, 13400-970 Piracicaba - SP (BR). NASCIMENTO, Daniela Defavari [BR/BR]; Avenida Pádua Dias, nº 11, 13400-970 Piracicaba - SP (BR). GUTMANIS, Guntá [BR/BR]; Avenida Pádua Dias, nº 11, 13400-970 Piracicaba - SP (BR). FARALDO, Maria Inez Fernandes [BR/BR]; Avenida Pádua Dias, nº 11, 13400-970 Piracicaba - SP (BR).
- (74) Agents: GAIARSA, Lucas M. et al.; Av. Brigadeiro Faria Lima nº 1485, Torre Norte - 12th Floor - Pinheiros, 01451-904 São Paulo - SP (BR).
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(54) Title: METHOD FOR THE GENETIC MODULATION OF THE BIOSYNTHESIS OF HEMICELLULOSES, CELLULOSE AND URONIC ACIDS IN PLANT CELLS USING GENE EXPRESSION CASSETTES



(57) Abstract: The present invention refers to gene expression cassettes encoding enzymes involved in the metabolic pathway for the biosynthesis of hemicelluloses, cellulose and/or uronic acids, and to a method for genetic transformation of plant cells through the introduction of one or more gene expression cassettes from the present invention, and the overexpression and repression of these genes in plants. More particularly, the present invention refers to a method for introducing expression cassettes in plants. Additionally, the present invention refers to genetically modified plants. The present invention also refers to the attainment of the genetically modified plant, its derived plants and seeds, as well as the wood, paper and cellulose from this plant.

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